

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, INCLUDING THE 1997, 1998 AND 1999 INTERIM SPECIFICATIONS, AND THE ODOT BRIDGE DESIGN MANUAL.

REFERENCE SHALL BE MADE TO:

SUPPLEMENTAL SPECIFICATIONS:

NO. 828 DATED 7-28-98
NO. 848 DATED 6-30-98
NO. 899 DATED 10-21-98
NO. 954 DATED 9-9-97

DECK PROTECTION METHOD

MICRO-SILICA CONCRETE MODIFIED OVERLAY.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE.
THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

PLANS OF THE EXISTING STRUCTURE ARE AVAILABLE FOR EXAMINATION AT: CT CONSULTANTS, INC., 35000 KAISER COURT, WILLOUGHBY, OHIO 44094.

DISPOSAL OF REMOVED MATERIAL

ALL CONCRETE, REINFORCING STEEL, GUARDRAIL, ASPHALT, ETC. REMOVED FROM THE STRUCTURE AND APPROACH ROADWAY, UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE SITE.

ITEM 202 - WEARING COURSE REMOVED:

THIS ITEM OF WORK SHALL BE USED TO REMOVE THE EXISTING REAR APPROACH SLAB SURFACE ASPHALT AND THE TEN FEET LONG PAVEMENT TRANSITIONS TO EACH APPROACH SLAB AS DESIGNATED IN THE PLANS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 202 - WEARING COURSE REMOVED AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

ITEM 848:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION: "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRODEMOLITION". THESE SPECIFICATIONS SHALL ALSO APPLY TO PERFORMING HYDRODEMOLITION WORK ON THE FORWARD APPROACH SLAB CONCRETE.

ITEM 407 - TACK COAT:

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.10 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

PAVEMENT MARKINGS

THE CONTRACTOR SHALL MEASURE AND RECORD THE LOCATION OF ALL PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS BEFORE CONCRETE SCARIFICATION WORK IS DONE.
THIS INFORMATION SHALL BE USED FOR PLACING THE PERMANENT PAVING MARKINGS AT THEIR EXISTING LOCATIONS AFTER COMPLETION OF THE OVERLAY WORK.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. FOR THE PROPOSED GUARDRAIL DIMENSIONAL DETAILS AND SPLICE DETAILS, SEE ODOT STANDARD DRAWINGS GR-1.1M AND GR-1.2M, AND AASHTO M180. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE GUARDRAIL RUN.

REBUILDING EXISTING APPROACH GUARDRAIL

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED UNTIL SUCH TIME AS THE ENGINEER IS ASSURED OF COMPLIANCE.

ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN

THIS ITEM SHALL BE USED FOR REMOVING ALL MATERIAL WITHIN THE LIMITS OF THE PROPOSED TYPE E BRIDGE TERMINAL ASSEMBLIES IN FOUR PLACES. THIS INCLUDES EXISTING GUARDRAIL AND WOOD POSTS AND CONCRETE ENCASING THE WOOD POSTS NEAREST THE WINGWALL ENDS. IT ALSO INCLUDES THE REMOVAL OF ASPHALT PAVEMENT AND APPROACH SLAB CONCRETE WHERE NEEDED FOR INSTALLING THE CONCRETE ENCASMENT AROUND THE TERMINAL ASSEMBLY POSTS. PAYMENT FOR THIS WORK SHALL BE AT THE LINEAL FOOT PRICE BID FOR ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THIS WORK.

GUARDRAIL TO BE SALVAGED

THE CONTRACTOR SHALL STORE ALL STEEL W-BEAM GUARDRAIL ON THE JOB SITE. ARRANGEMENTS SHALL BE MADE FOR PICK UP BY THE CITY OF MENTOR BY CONTACTING THE DIRECTOR OF PUBLIC WORKS, PHONE 255-1100.

THE COST OF THIS WORK SHALL BE INCIDENTAL IN THE LINEAR FOOT PRICE BID FOR ITEM 202 - GUARDRAIL REMOVED FOR STORAGE AND ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN.

ASPHALT CONCRETE

ON THIS PROJECT, ALL 448 MATERIALS SHALL BE DESIGNED FOR MEDIUM TRAFFIC VOLUMES.

HAND CHIPPING

HAND CHIPPING THE DECK CONCRETE SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 848 SECTIONS 848.21 AND 848.32 WITH THE FOLLOWING ADDITIONS:

1. HAND CHIPPING SHALL BE DONE ON THE BACKWALL TOPS;
2. HAND CHIPPING SHALL BE DONE ON UNSOUND AREAS REMAINING AFTER HYDRODEMOLITION IS PERFORMED ON THE DECK AND THE FORWARD APPROACH SLAB IN AREAS DETERMINED BY THE ENGINEER FROM HIS SOUNDING WORK;
3. HAND CHIPPING SHALL BE DONE ON THE DECK AND FORWARD APPROACH SLAB IN AREAS THAT ARE INACCESSIBLE TO HYDRODEMOLITION EQUIPMENT.

ALL HAND CHIPPING SHALL BE DONE AS DIRECTED BY THE ENGINEER. PAYMENT FOR HAND CHIPPING, REGARDLESS OF LOCATION, SHALL BE AT THE CONTRACT SQUARE YARD UNIT PRICE BID FOR ITEM 848 - HAND CHIPPING AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THIS WORK.

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